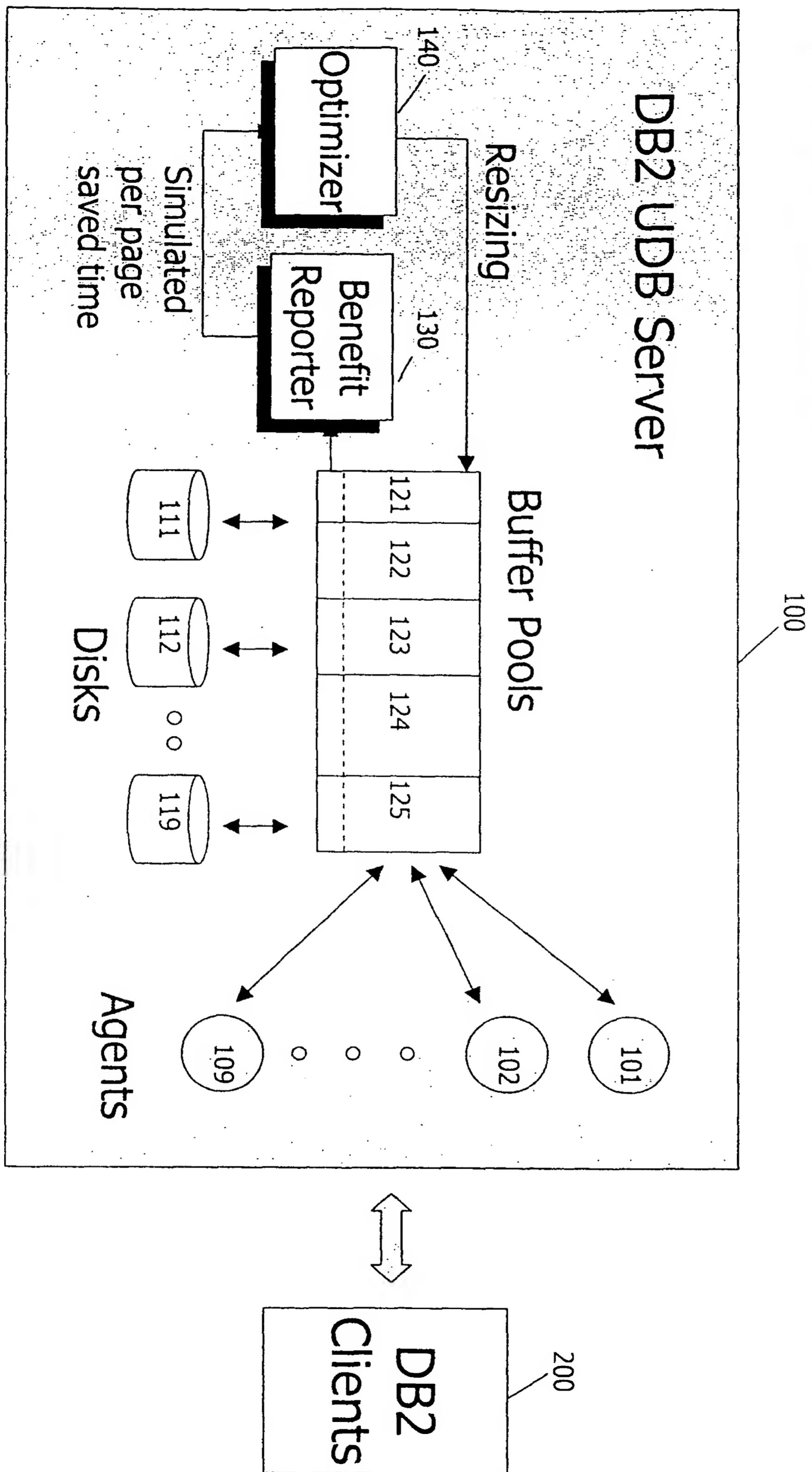


Figure 1



## Figure 2

Total saved disk time: unknown

Total saved disk time

$$W_i = h(x_i) = a_i(1 - e^{-b_i x_i})$$

Benefit per page

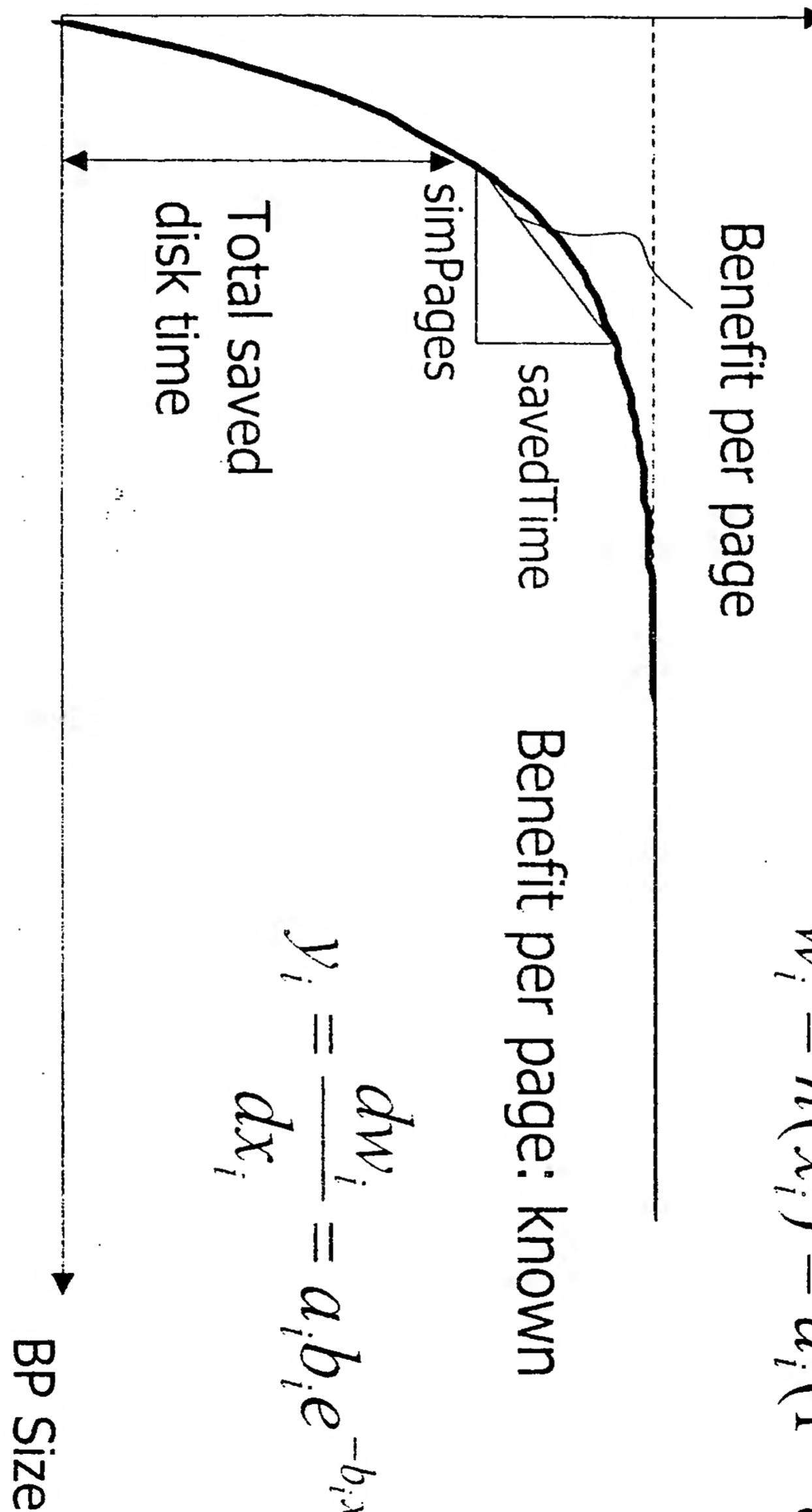
Benefit per page: known

simPages

savedTime

Total saved disk time

$$Y_i = \frac{dW_i}{dx_i} = a_i b_i e^{-b_i x_i}$$



Objective: Given  $x_i \geq d_i$ ,  $\sum_{i=1}^n x_i \leq c$ , maximize  $f = \sum_{i=1}^n W_i$

Figure 3

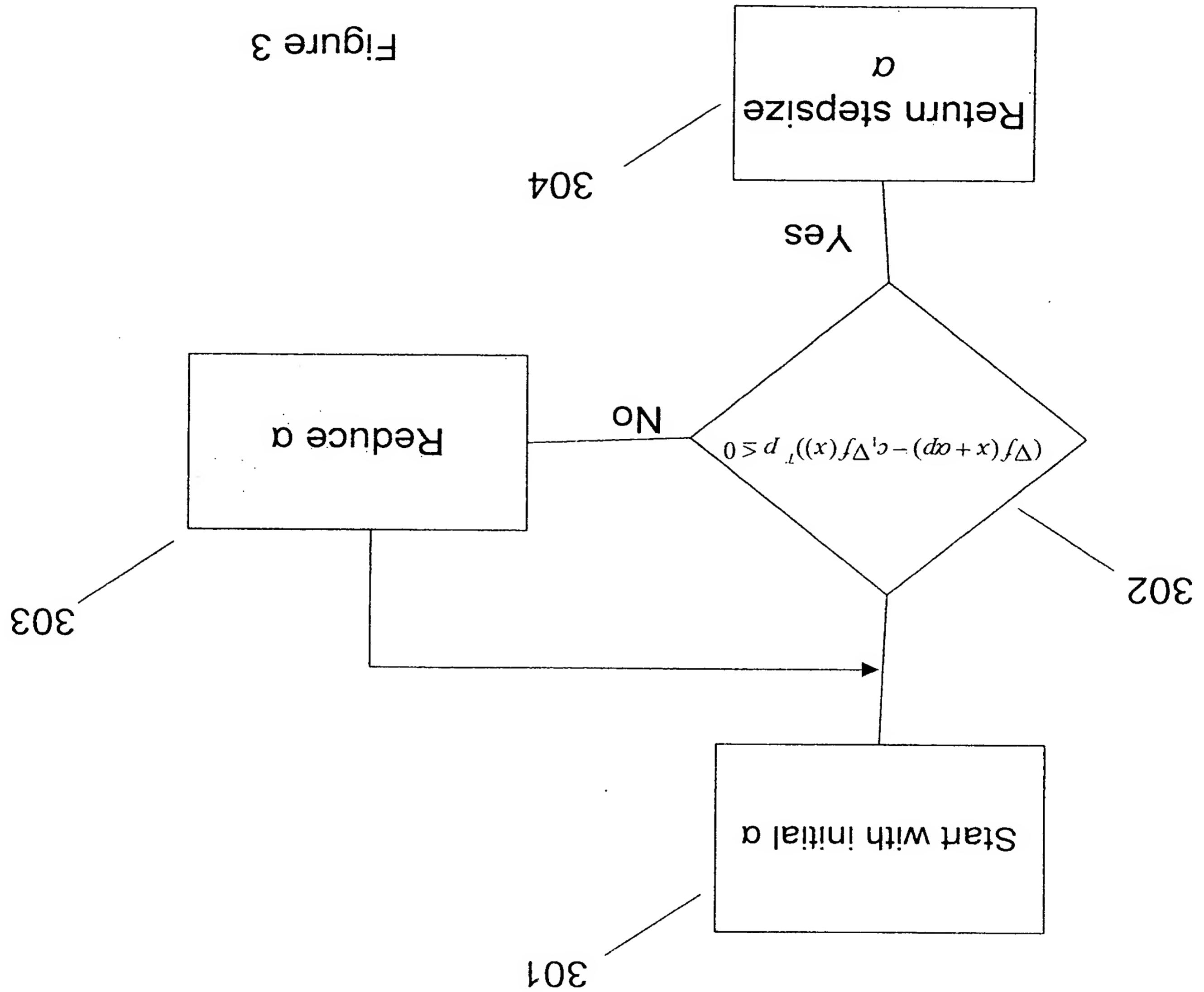


Figure 4

